

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A lamp monitoring and control system for monitoring and controlling at least one lamp, comprising:
 - at least one lamp monitoring and control unit, coupled to a respective lamp of the at least one lamp to monitor and control the at least one lamp, and configured to generate monitoring data; and
 - a transmitter, configured to transmit the monitoring data by wireless communication to a base station for processing.
2. (Currently Amended) The system of claim 1, further comprising at least one base station, wirelessly coupled to the at least one lamp monitoring and control unit to receive the monitoring data, wherein each of the at least one base station includes a data processing unit configured to process the transmitted monitoring data.
3. (Original) The system of claim 1, wherein the monitoring data comprises at least an ID field and a status field.

4. (Currently Amended) The system of claim 3, wherein the ID filed field includes a lamp monitoring and control unit ID.

5. (Original) The system of claim 1, wherein the monitoring data includes current data related to the respective lamp.

6. (Original) The system of claim 5, wherein the monitoring data includes voltage data related to the respective lamp.

7. (Currently Amended) The system of claim 1, wherein [[the]] at least one of the at least one lamp monitoring and control units transmits the monitoring data to at least one of the at least one base station using an RF link.

8. (Original) The system of claim 1, wherein transmission of the monitoring data from the at least one lamp monitoring and control unit is staggered in time to avoid a collision with transmission of monitoring data from a second lamp monitoring and control unit.

9. (Original) The system of claim 1, wherein the transmission of the monitoring data from the at least one lamp monitoring and control unit is staggered in frequency to

avoid a collision with transmission of monitoring data from a second lamp monitoring and control unit.

10. (Currently Amended) A method for monitoring a status of at least one lamp on a lamp pole, comprising:

collecting monitoring data for the at least one lamp using a monitoring and control device located substantially near a top of a lamp pole; and

wirelessly transmitting [[a]] the monitoring data [[to]] at least one random time to a prescribed receiver.

11. (Original) The method of claim 10, further comprising receiving the monitoring data by the receiver and processing the monitoring data by the receiver, wherein the receiver is configured to receive monitoring data from at least two monitoring and control devices.

12. (Original) The method of claim 11, wherein the at least two monitoring and control devices are not co-located.

13. (Original) The method of claim 10, wherein transmitting comprises:
randomizing a transmission start delay time;

further randomizing a transmission delta time; and
redundantly transmitting the monitoring data in accordance with the
transmission start delay time and the transmission delta time.

14. (New) The system of claim 1, further comprising a light sensor coupled to the at least one lamp monitoring and control unit.
15. (New) The system of claim 1, wherein control of the at least one lamp includes alternately energizing and de-energizing the at least one lamp.
16. (New) The system of claim 1, wherein the monitoring data includes functionality information.
17. (New) The system of claim 1, further comprising a communication server configured to communicate with the at least one base station.
18. (New) The system of claim 17, wherein the communication server comprises the Internet.

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19. (New) The system of claim 1, further comprising a plurality of base stations, wherein at least a first base station and at least a second base station are configured to communicate via a communication network.

20. (New) The system of claim 19, wherein the communication network comprises a bus, star, ring, or mesh topology.